

CURRICULUM VITAE -Charles W. Parker, M.D.

SS#: 490-38-0488

Date: October 6, 1999

1. Personal Information:

- a. Sex: M
- b. Date of Birth: March 23, 1930
- c. Place of Birth: St. Louis, Missouri

2. Citizenship: USA

3. Address and Telephone Numbers:

- a. , St. Louis, Missouri 63124
- b. Home: (314) 962-9250

4. Present Position:

Professor of Medicine, Microbiology and Immunology (*Emeritus*)

5. Education:

- a. Washington University, St. Louis, MO 1947-1949
- b. Washington University School of Medicine, St. Louis, MO, 1958
- c. 1953-1954 Intern, Barnes Hospital, Washington University School of Medicine, St. Louis, MO
- 1956-1958 Assistant Resident, Barnes Hospital, Washington University School of Medicine, St. Louis, MO
- 1958-1959 Chief Resident, Barnes Hospital (Ward Medical Service), Washington University School of Medicine, St. Louis, MO
- 1961-1962 USPHS Research Fellow
- 1962-1972 Research Career Award, NIAID

6. Academic Positions/Employment:

- 1960-1963 Instructor in Medicine, Washington University School of Medicine
- 1962-1988 Head, Division of Allergy and Immunology, Washington University School of Medicine
- 1963-1968 Assistant Professor of Medicine, Washington University School of Medicine
- 1968-1971 Associate Professor of Medicine, Washington University School of Medicine
- 1971-1998 Professor of Medicine, Washington University School of Medicine
- 1975-1998 Professor of Microbiology and Immunology Molecular B, Washington University School of Medicine
- 1977-1989 Investigator, Howard Hughes Laboratory for the Study of Clinical Immunology and Allergy at Washington University School of Medicine
- 1998- Professor of Medicine (*Emeritus*), Washington University School of Medicine

7. University and Hospital Appointments and Committees:

- 1959-1998 Associate Physician, Barnes Hospital

8. Medical Licensure

MO 15764; Board Certified Internal Medicine, 1962

9. Military Service:

LCMR, USNR United States Navy; 1954-1956

10. Honors and Awards:

Washington University, cum laude

Mosby Award, Phi Eta Sigma; Alpha Omega Alpha; Sigma Xi; Hixon Award; Bausch and Lomb Award

Research Career Award, NIAID, 1962-1972

Honorary Fellowship Award, The American Academy of Allergy and Immunology, 1983 (for original research in the field of allergy and immunology)

Washington University Alumni Award

Charles W. Parker Medical Student Scholarship

11. Editorial Responsibilities: (Editorial Boards)

Journal of Allergy and Clinical Immunology

Immunochemistry

Clinical Immunology and Immunopathology

Journal of Immunology

Journal of Clinical Investigation

Editorial Consultant to Clinical Immunology

Editorial Committee, American Association of Immunologists

Associate Editor, The Journal of Clinical Investigation, 1977-1982

Section Editor, The Journal of Immunology, 1977-1982

12. Professional Societies and Organizations:

American Board of Internal Medicine

Central Society for Clinical Research

Fellow, American Academy of Allergy

American Association of Immunologists

Collegium Internationale Allergologicum

Association of American Physicians

American Heart Study Section, 1972-1974

American Society for Clinical Investigation

Council of the American Society for Clinical Investigation, 1973-1976

American Federation for Clinical Research

13. Major Invited Professorships and Lectureships:

Various lectureships and symposia.

14. Consulting Relationships and Board Memberships

NIH Study Section – Immunology A, 1967-1971

FDA Anti-infective Agents Advisory Committee, 1969-1971

Consultant to NIH Intramural Training Programs in Clinical Immunology

NIH, NIAID, Allergy and Immunology Research and Research Training Committee, 1972-1974

Board of Advisors, Roche Institute of Molecular Biology, 1978-1981

Ad hoc Consultant to numerous pharmaceutical companies including Searle, Merck, Pfizer, Lilly, Mead Johnson, Nippon Zoki

NIH, GCRC Scientific Review Committee, 1993-1997, 1998-2002, a. (b) (6) (b) (7) (C) (D) (E) (F) (G) (H) (I) (J) (K) (L) (M) (N) (O) (P) (Q) (R) (S) (T) (U) (V) (W) (X) (Y) (Z)

15. Research Support: (Current)

Retired

16. Clinical Title and Responsibilities:

1959-1998 Associate Physician, Barnes-Jewish Hospital

17. Teaching Title and Responsibilities:

1971-1998 Professor of Medicine, Washington University School of Medicine
1975-1998 Professor of Microbiology and Immunology, Molecular Biology, Washington University School of Medicine
1998- Professor of Medicine (*Emeritus*), Washington University School of Medicine

18. Bibliography(a) Manuscripts

1. Velick, SF, Parker, CW, and Eisen, HN. Excitation energy transfer and the quantitative study of the antibody hapten reaction. *Proc Natl Acad Sci* 1960; 46:1470.
2. Parker, CW, Kern, M and Eisen, HN. Polyfunctional dinitrophenyl haptens as reagents for elicitation of immediate-type allergic skin responses. *J Exp Med* 1962; 115:789.
3. Parker, CW, DeWeck, AL, Kern, M and Eisen, HM. The preparation and some properties of penicillinic acid derivatives relevant to penicillin hypersensitivity. *J Exp Med* 1962; 115:803.
4. Parker, CW, Shapiro, J, Kern, M, and Eisen, HM: Hypersensitivity to penicillinic acid derivatives in humans with penicillin allergy. *J Exp Med* 1962; 115:831.
5. Parker, CW: Editorial – Penicillin Allergy. *Amer J Med* 1963; 34:747.
6. Parker, CW and Thiel, JA. Studies in human penicillin allergy. A comparison of various penicilloyl-polylysines. *J Lab Clin Med* 1963; 62:482.
7. Parker, CW. The immunochemical basis for penicillin allergy. *Postgraduate Med J* 1964; 40:141.
8. Budd, MA, Parker, CW and Norden, CW. Evaluation of intradermal skin tests in penicillin hypersensitivity. *JAMA* 1964; 190:203.
9. Thiel, JA, Mitchel, S and Parker, CW. The specificity of hemagglutination reactions in human and experimental penicillin hypersensitivity. *J Allergy* 1964; 35:399.
10. Parker, CW, Thiel, JA and Mitchell, S. The immunogenicity of hapten-polylysine conjugates. *J Immunol* 1964; 94:289.
11. Parker, CW. The biochemical basis of an allergic drug response. Symposium on Drug Toxicity. *Ann NY Acad Sci* 1964; 125:55.
12. Parker, CW. Immunochemical mechanisms in penicillin allergy. Symposium on Allergic Responses to Pharmacologic Agents. *Fed Proc* 1965; 24:51.
13. Halloran, MJ and Parker, CW. The preparation of nucleotide-protein conjugates. Carbodiimides as coupling agents. *J Immunol* 1966; 96:373.
14. Halloran, MJ and Parker, CW. The production of antibodies to mononucleotides, oligonucleotides and DNA. *J Immunol* 1966; 64:379.
15. Permutt, A, Parker, CW and Utiger, RD. Studies on the immunochemistry of lysine vasopressin and other posterior pituitary hormones. *Endocrinology* 1966; 78:809.
16. Parker, CW, Bodt, S and Johnson, MC. The antibody response to a 2,4-dinitrophenyl peptide. *Biochemistry* 1966; 5:2314.
17. Parker, CW, Yoo, TJ, Johnson, MC and Godt, SM. Fluorescent probes for the study of the antibody hapten reaction. I. Binding of the 5-dimethylaminonaphthalene-1-sulfonamido group by homologous rabbit antibody. *Biochemistry* 1967; 6:3408.

18. Parker, CW, Godt, S and Johnson, MC. Fluorescent probes for the study of the antibody hapten reaction. II. Variation in the antibody combining site during the immune response. *Biochemistry* 1967; 6:3417.
19. Parker, CW. Enterococcal endocarditis. Allergy to penicillin. Jewish Hospital (St. Louis) Grand Rounds. *JAMA* 1968; 204:916.
20. Yoo, TJ and Parker, CW. Fluorescent enhancement in antibody hapten interaction 1-anilinonaphthalene-8-sulfonate as a fluorescent probe at active sites. *Immunochemistry* 1968; 5:143.
21. Oliver, GC, Parker, BM, Brasfield, DL and Parker, CW. The measurement of digitoxin in human serum by radioimmunoassay. *J Clin Invest* 1968; 47:1035.
22. Dorner, IM, Parker, CW and Chaplin, H. Autoagglutination developing in a patient with acute renal failure. *Brit J Hematology* 1968; 14:379.
23. Ljaljevic, M, Ljaljevic, J and Parker, CW. Modification of the amino groups of rabbit (-G globulin. I. The effect on skin sensitizing activity in guinea pig skin. *J Immunol* 1968; 100:1041.
24. Ljaljevic, M, Ljaljevic, J and Parker, CW. Modification of the amino groups of rabbit (-G globulin. II. Selective effect on Fc function. *J Immunol* 1968; 100:1051.
25. Steiner, AL, Kipnis, DM, Utiger, R and Parker, CW. Radioimmunoassay for the measurement of adenosine 3', 5' cyclic monophosphate. *Proc Natl Acad Sci* 1969; 64: 367.
26. Messner, RP, Parker, CW and Williams, RC. Chemical modification of human and rabbit anti-staphylococcal (-G antibodies. Effect of acetylation, carbamylation and amidation on opsonic activity. *J Immunol* 1970; 104: 238.
27. Parker, CW and Osterland, CK. Hydrophobic binding sites on immunoglobulins. *Biochemistry* 1970; 9:1074.
28. Spector, S and Parker, CW. Morphine: Radioimmunoassay. *Science* 1970; 168: 1347.
29. Fisher, BD, Parker, CW, Haynes, CR and Chaplin, H. Inhibition of erythrocyte antibody binding by a dialysate of hemolyzed red blood cells. *Clin Chem Acta* 1970; 30:842.
30. Oliver, GC, Parker, CM and Parker, CW. Radioimmunoassay for diphtheria toxin. Technique and Clinical application. *Amer J Med* 1971; 51:186.
31. Smith, JW, Steiner, AL, Newberry, WM and Parker, CW. Cyclic AMP in human lymphocytes. Alterations following phytohemagglutinin stimulation. *J Clin Invest* 1971; 50:432.
32. Smith, JW, Steiner, AL and Parker, CW. Human lymphocyte metabolism. Effects of cyclic and noncyclic nucleotides on stimulation by phytohemagglutinin. *J Clin Invest* 1971; 50:442.
33. Parker, CW, Smith, JW and Steiner, AL. Early effects of phytohemagglutinin (PHA) on lymphocyte cyclic AMP levels. *Int Arch Allergy* 1971; 41:40.
34. Jaffe, BM, Smith, JW, Newton, WT and Parker, CW. Radioimmunoassay for prostaglandins. *Science* 1971; 171:494.
35. Aach, RD, Grisham, JW and Parker, CW. Detection of Australia antigen by radioimmunoassay. *Proc Natl Acad Sci* 1971; 68:1056.
36. Liskow, B, Liss, JL and Parker, CW. Allergy to marijuana. A case report. *Ann of Int Med* 1971; 75:571.
37. Jaffe, BM, Parker, CW and Philpott, GW. Immunochemical measurement of prostaglandin or prostaglandin-like activity from normal and neoplastic tissues in culture. *Surgical Forum* 1971; 22:90.
38. Stein, MR and Parker, CW. Reactions following intravenous fluorescein. *Amer J Ophthal* 1971; 72: 861.
39. Oliver, GC, Bahl, OP and Parker, CW. Characterization of antialdosterone antibodies. *Circulation* 1971; 44:446.
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41. Eisen, SA, Wedner, HJ and Parker, CW. Isolation of pure human peripheral T lymphocytes on nylon columns. *Immunologic Comm* 1972; 1:571.
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43. Steiner, AL, Parker, CW and Kipnis, DM. Radioimmunoassay for cyclic nucleotides. I. Preparation of antibodies and iodinated cyclic nucleotides. *J Biol Chem* 1972; 247:1106.
44. Ryan, JJ, Parker, CW and Williams, RC. (- Globulin binding of morphine in heroine addicts. *J Lab Clin Med* 1972; 80:155.
45. Steiner, AL, Wehmann, RE, Parker, CW and Kipnis, DM. Radioimmunoassay for the measurement of cyclic nucleotides. *Adv Cyclic Nucleotide Res* 1972; 2:51.
46. Jaffe, BM, Parker, CW, Marshall, GR and Needleman, P. Renal concentrations of prostaglandin E in acute and chronic renal ischemia. *Biochem Biophys Res Commun* 1972; 49:799.
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50. Parker, CW and Morse, SI. The effect of B. pertussis on lymphocyte cyclic AMP metabolism. *J Exp Med* 1973; 137:1078.
51. Knowles, DM, Sullivan, TJ, Parker, CW and Williams, RC. In vitro antibody-enzyme conjugates with specific bactericidal activity. *J Clin Invest* 1973; 52:1443.
52. Parker, CW. The immunotherapy of cancer. *Pharm Rev* 1973; 25:325.
53. Eisen, SA, Lyle, LR and Parker, CW. Antigen stimulation of ³H thymidine incorporation by subpopulations of human peripheral blood cells. *J Immunol* 1973; 111:962.
54. Sullivan, TJ, Parker, KL and Parker, CW. Specific killing of parasites by antibody-enzyme conjugates. *Res Comm Chem Pathol Pharm* 1973; 6:709.
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56. Parker, CW, Baumann, ML and Huber, MG. Alterations in cyclic AMP metabolism in human bronchial asthma. II. Leukocyte and lymphocyte responses to prostaglandin. *J Clin Invest* 1973; 52:1336.
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62. Philpott, GW, Shearer, WT, Bower, RJ and Parker, CW. Selective cytotoxicity of hapten substituted cells with an antibody enzyme conjugate. *J Immunol* 1973; 111:921.
63. Bloom, FE, Wedner, HJ and Parker, CW. The use of antibodies of study cell structure and metabolism. *Pharm Rev* 1973; 25:343.
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68. Shearer, WT, Philpott, GW and Parker, CW. Humoral immunostimulation. I. Increased uptake of ^{125}I -iododeoxyuridine and ^3H thymidine into TNP-cells treated with anti-TNP antibody. *J Exp Med* 1974; 139:367.
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72. Parker, CW. Cyclic AMP and the β adrenergic system in bronchial asthma. *Proc Internat Congress of Immunol Excerpta Media* 1974; pp. 334-337.
73. Lyle, LR and Parker, CW. The antigen induced proliferative response of murine thymus cells in vitro. *Infection and Immunity* 1974; 10:765.
74. Lyle, LR, Parker, BM and Parker, CW. The use of protein substituted nylon catheters for selective immunoabsorption in vivo. *J Immunol* 1974; 113:517.
75. Shearer, WT, Turnbaugh, TR, Coleman, We, Aach, RD, Philpott, GW and Parker, CW. Cytotoxicity with antibody-glucose oxidase conjugates specific for a human colonic cancer and carcinoembryonic antigen. *Intern J Ca* 1974; 14:539.
76. Philpott, GW, Bower, RJ, Parker, K, Shearer, WT and Parker, CW. Affinity cytotoxicity of tumor cells with antibody-glucose oxidase conjugates, peroxidase and arsphenamine. *Ca Res* 1974; 34:2159.
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78. Parker, CW. Correlation between mitogenicity and stimulation of calcium uptake in human lymphocytes. *Biochem Biophys Res Comm* 1974; 61:1180.
79. Lyle, LR and Parker, CW. Cyclic AMP responses to concanavalin A in human lymphocytes. Evidence that the response involves specific carbohydrate receptors on the cell surface. *Biochemistry* 1974; 13:5415.
80. Parker, CW, Aach, RD and Philpott, GW. Enzymatic activation and trapping of luminol substituted peptides and proteins. A possible means of amplifying the cytotoxicity of antitumor antibodies. *Proc Natl Acad Sci* 1975; 72:338.
81. Wedner, HJ and Parker, CW. Protein phosphorylation in human peripheral lymphocytes. Stimulation by phytohemagglutinin and N^6 monobutyryl cyclic AMP. *Biochem Biophys Res Comm* 1975; 62:808.
82. Parker, CW. Drug allergy. (Review in three parts). *New Eng J Med* 1975; 292:511, 732, 957.
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84. Sullivan, TJ, Parker, KL, Eisen, SA and Parker, CW. Modulation of cyclic AMP purified rat mast cells. II. Studies on the relationship between intracellular cyclic AMP concentrations and histamine release. *J Immunol* 1975; 114:1480.
85. Shearer, WT, Atkinson, JP, Frank, MM and Parker, CW. Humoral immunostimulation. IV. Role of complement. *J Exp Med* 1975; 141:736.

86. Shearer, WT, Philpott, GW and Parker, CW. Humoral immunostimulation. II. Increased Nucleoside incorporation, DNA synthesis, and cell growth of L cells treated with anti-L cell antibody. *Cell Immunol* 1975; 17:447.
87. Sullivan, TJ, Greene, WC and Parker, CW. Concanavalin A induced histamine release from normal rat mast cells. *J Immunol* 1975; 115:613.
88. Shearer, WT, Parker, CW. Humoral immunostimulation. III. Requirements for divalent antibody and cellular aggregation. *J Immunol* 1975; 115:278.
89. Shearer, WT, Philpott, GW and Parker, CW. Alteration of L cell growth by antibody-stimulated incorporation of radioactive nucleosides. *Res Comm Chem Path Pharm* 1975; 11:303.
90. Fink, MF, Parker, CW and Shearer, WT. Antibody stimulation of tumor growth in T-cell depleted mice. *Nature* 1975; 255:404.
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92. Greene, WC and Parker, CW. A role for cytochalasin-sensitive protein in the regulation of calcium. *Biochem Biophys Res Comm* 1975; 65:456.
93. Atkinson, JP, Wedner, HJ and Parker, CW. Two novel stimuli of cyclic adenosine 3', 5' monophosphate (cAMP) in human lymphocytes. *J Immunol* 1975; 115:1023.
94. Shearer, WT and Parker, CW. Humoral immunostimulation. V. Selection of variant cell lines. *J Exp Med* 1975; 142:1133.
95. Parker, CW, Dankner, RE, Falkenhein, SF and Green, WC. Suggestive evidence for both stimulatory and inhibitory domains on human lymphocytes as indicated by phospholipid turnover studies with wheat germ agglutinin and other lectins. Possible relationship to immune tolerance and malignant transformation. *Immunol Comm* 1976; 5:13.
96. Roberts, R, Sobel, BE and Parker, CW. Radioimmunoassay for creatine kinase isoenzymes. *Science* 1976; 194:855.
97. Parker, CW. The role of cyclic AMP in immunological inflammation. *J Invest Derm* 1976; 67:638.
98. Greene, WC, Parker, CM and Parker, CW. Opposing effects of mitogenic and non-mitogenic lectins on lymphocyte activation. Evidence that wheat germ agglutinin produces a negative signal. *J Biol Chem* 1976; 251:4017.
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103. Greene, WC, Parker, CM, and Parker, CW. Colchicine sensitive structures and lymphocyte activation. *J Immunol* 1976; 117:1015.
104. Sullivan, TJ, Parker, CM and Parker, CW. Pharmacological modulation of the inflammatory mediator release by rat mast cells. Federal Symposium. *Amer J Path* 1976; 85:437.
105. Greene, WC, Parker, CM and Parker, CW. Cytochalasin sensitive structures and lymphocyte activation. *Exp Cell Res* 1976; 103:109.
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112. Snider, DE and Parker, CW. Adenylate cyclase activity in lymphocyte subcellular fractions. Characterization of non-nuclear adenylate cyclase. *Biochem J* 1977; 162:473.
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114. Jakschik, BA, Kulczycki, A; MacDonald, HH and Parker, CW. Release of slow reacting substance (SRS) from rat basophilic leukemia (RBL-1) cells. *J Immunol* 1977; 119:618.
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116. Kelly, JP, Wedner, HJ and Parker, CW. Mitogenic receptors on human peripheral blood lymphocytes. The interaction of Phaseolus vulgaris (E-PHA) and ATG on the human peripheral blood lymphocytes. *J Immunol* 1977; 118:2213.
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